

ABSTRACT

A passive system for effectively removing excess water from a soil profile. The system includes an array of fibrous capillary drains inserted at regular intervals into the soil profile. These capillary drains traverse one or more of the layers of the soil profile. Typically, the soil profile in question includes a root zone and a gravel layer beneath the root zone, and the capillary drains provide a continuous porous pathway of capillary pores extending from the lower reaches of the root zone through the gravel layer. The capillary drains themselves may be constructed from fiberglass rope, fiberglass tape, or a contained column of sand or similar particulate matter.